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OM protein - protein search, using sw model

Run on: January 27, 2009, 15:05:50 ; Search time 1 Seconds
(without alignments)
1.259 Million cell
updates/sec

Title: US-10-983-128-6016
Perfect score: 1731

Sequence: 1 MSDRQAALDMALKIEKQFG.....TGGAAPAQEDEAQAAQEELEF 348

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 3617 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : US10593425.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
<hr/>						
Appl 1	1731	100.0	348	1	US-10-593-425-32	Sequence 32,
Appl 2	1718	99.2	348	1	US-10-593-425-2	Sequence 2,
Appl 3	73	4.2	492	1	US-10-593-425-8	Sequence 8,
Appl 4	64	3.7	425	1	US-10-593-425-10	Sequence 10,
Appl 5	60.5	3.5	500	1	US-10-593-425-12	Sequence 12,
Appl 6	52	3.0	398	1	US-10-593-425-6	Sequence 6,
Appl 7	48	2.8	264	1	US-10-593-425-16	Sequence 16,
Appl 8	44	2.5	398	1	US-10-593-425-4	Sequence 4,
Appl						

9	42.5	2.5	288	1	US-10-593-425-18	Sequence 18,
Appl						
10	34.5	2.0	156	1	US-10-593-425-14	Sequence 14,
Appl						

ALIGNMENTS

RESULT 1
US-10-593-425-32
; Sequence 32, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 348
; TYPE: PRT
; ORGANISM: Bacillus licheniformis A
US-10-593-425-32

Query Match 100.0%; Score 1731; DB 1; Length 348;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 348; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1
MSDRQAALDMALKQIEKQFGKGSIMKLGEQTETRISTVPSGLALDAALGVGGYPRGRRII 60

|||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 1
MSDRQAALDMALKQIEKQFGKGSIMKLGEQTETRISTVPSGLALDAALGVGGYPRGRRII 60

Qy 61
EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIDEELLSQPDTG 120

|||||||||||||||||||||||||||||||||||||||||||||

Db 61
EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIDEELLSQPDTG 120

Qy 121
EQALEIAEALVRSGAVDIVVIDSVAALVPKAETEGDMGDSHVGLQARLMSQALRKLSGAI 180

||||||||||||||||||||||||||||||||||||||||||
Db 121
EQALEIAEALVRSGAVDIVVIDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAI 180

Qy 181
NKSKTIAIFINQIREKVGVGMFGNPETTPGGRALKFYSSVRLEVRRAEQLKQGNDVMGNKT 240

||||||||||||||||||||||||||||||||||||||
Db 181
NKSKTIAIFINQIREKVGVGMFGNPETTPGGRALKFYSSVRLEVRRAEQLKQGNDVMGNKT 240

Qy 241
KIKVVKNKAPPFRTAEV DIMYGE GISKE GEI ID LGT ELDIV QKG SAW SYQE ERL GQR 300

||||||||||||||||||||||||||||||||||||||
Db 241
KIKVVKNKAPPFRTAEV DIMYGE GISKE GEI ID LGT ELDIV QKG SAW SYQE ERL GQR 300

Qy 301 ENAKQFLKENKDILLMIQE QIREHYGLDTGGAA PAQ EDEA QAQEELEF 348
Db 301 ENAKQFLKENKDILLMIQE QIREHYGLDTGGAA PAQ EDEA QAQEELEF 348

RESULT 2
US-10-593-425-2
; Sequence 2, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744+21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 348
; TYPE: PRT
; ORGANISM: Bacillus licheniformis DSM 13
US-10-593-425-2

Query Match 99.2%; Score 1718; DB 1; Length 348;
Best Local Similarity 99.4%; Fred. No. 0;
Matches 346; Conservative 1; Mismatches 1; Indels 0;
Gaps 0;

Qy 1
MSDRQAALDMALKQIEKQFGKGSIMKLGEQTETRISTVPSGLALDAALGVGGYPRGRII 60

||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1
MSDRQAALDMALKQIEKQFGKGSIMKLGEQTETRISTVPSGLALDAALGVGGYPRGRII 60

Qy 61
EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIDEELLSQPDTG 120
||||||||||||||||||||||||||||||||||||||||||||||:
Db 61
EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDADTALDPVYAQKLGVNIDEELLSQPDTG 120

Qy 121
EQALEIAEALVRSGAVDIVVIDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAI 180

Db 121
EQALEIAEALVRSGAVDIVVIDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAI 180

Qy 181
NKSKTIAIFINQIREKVGVMFGNPETTPGGRALKFYSSVRLEVRRAEQLKGNDVMGNKT 240

Db 181
NKSKTIAIFINQIREKVGVMFGNPETTPGGRALKFYSSVRLEVRRAEQLKGNDVMGNKT 240

Qy 241
KIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGAWYSYQEERLGQGR 300

Db 241
KIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGAWYSYQEERLGQGR 300

Qy 301 ENAKQFLKENKDILLMIQEIQIREHYGLDTGGAAPAQEDEAQAQEELEF 348
Db 301 ENAKQFLKENKDILLMIQEIQIREHYGLDTGGAAPAQEDEAQAQEELEF 348

RESULT 3
US-10-593-425-8
; Sequence 8, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 8
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-8

Query Match 4.2%; Score 73; DB 1; Length 492;
Best Local Similarity 19.0%; Pred. No. 0;
Matches 58; Conservative 57; Mismatches 109; Indels 82;
Gaps 13;

Qy 73
VALHAIAEVQQQQGQAQFIDAEEHALDFVYAQKLGVNIDELLLSQPDTGEQALEIAEALVR 132
: | ||: | | | ||: | | | ::| | : | : |
Db 127 IPFHAEAEI---GTRKVIQ-EHSTIGVVITTDGTIGD---
IARSODYIEAEERVIEELKE 178

Qy 133 SGAVDIVVIDSVAALVPKAE-IEGDMGDSH-----
VGLQARLMSQALRKLSGAINKSKT 185
| :||:|| | : | : | : : : : : : | | | | : |
Db 179 VGKPFIMVINSVRPYHPETEAMRQDLSEKYDIPVLAMSVESMRESDVLSVREALYEFPV 238

Qy 186 IAIFIN-----
QIREKVGVMFGNPETTPGGRALKFYSSVRLVRRAEQLKQGN 233
: : | : | : | : | : | : | : | : | : | : |
Db 239 LEVNVLNLPSSVMVLKENHWLRE-----
SYQESVKETVKDIKRLRDVD 280

Qy 234
DVMGNKTKIKVVKNKVAPPFRTAEVDIRGYEGISKEGEIIDLGTELDIVQKSGAWYSYQE 293
| :| : : : : : : | :| :| :| :| :| :| :|
Db 281 RVVGQFSEFEFIES-----AGLAGIELGQGV-----
EIDLAYPDHLYDQILK 323

Qy 294 ERLG---QGRE-----
NAKQFLKENKDILLMIQEIQIREHYGLDTGGAAAPAQEDEA 340
| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db 324 EVVGVEIRGRDHLLLEMQDFAHAKTEYDQVSDALKMVQK---TGYGI----
AAPALADMS 376

Qy 341 QAQEEL 346
: |:
Db 377 LDEPEI 382

RESULT 4
US-10-593-425-10
; Sequence 10, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-

inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 425
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-10

Query Match 3.7%; Score 64; DB 1; Length 425;
Best Local Similarity 20.1%; Pred. No. 0;
Matches 70; Conservative 46; Mismatches 126; Indels 106;
Gaps 15;

Qy 35 ISTVPGSGLALDAALGVGGYPRGRRIIEVY-----
GPESSGKTTVALHAIAEVQQGGQ- 87
: : | | : : || : | :: : | : | : | : | : :
||
Db 104 LKVIPGGQ----SIGVKLHSVGVLVGFHQINTSEGKKSPGE-
TAGIEAGDIIEMNGQK 157

Qy 88 -----AAFIDAEHALDPVYAQKLGVNIDEL-----
LLSQPDTGEQALEIAEA 129
| | | | | | : | | | : | | | : | | | |
Db 158 IEKMNDVAPFIQK-----
AGKTGESLDLLIKRDKQKIKTKLIEPEKDEGEGKYRIG-L 208

Qy 130 LVRSGAVDI-----VVIDS---
VAALVPKAIEGDMG 158
: | | | | | | : | : | | | |
|
Db 209 YIRDSAAGIGTMTFYEPKTKKYGALGHVISDMDTKKPIVVENGEIVKSTV--
TSIEKG TG 266

Qy 159
DSHVGLQARLMSQALRKLSGAINSKTIAIFINQIREKVGVFMGNPETTPGGRALKFYSS 218
: | | | | | | : | : | : |
|
Db 267 GNPGEKLA RFSSE--RKTIGDINRNSPFGIF-----
GTLHQPIQNNISDQALPVAFS 316

Qy 219 VRLEVRRAEQLKQGNNDVMGNKT KIKVVKN-----KVAPPFR TAE---
VDIM 261
: | | | | | | : | | | |
|
Db 317
TEVKKGPAEILTVIDDDKVEKF DIEIVSTTPQKFATKGMVLKITDPRLLKETGGIVQGM 376

Qy 262 YGEGISKEGEIIDLGTEL DIVQKSGAWYSYQEERLGQ-----GRENA 303
| | : | : | | : | : | : | : | : |
Db 377 SGSP IIQNGKVIGAVTHVFN DPTSGYGVH EWM LSEAGI DIYGKEKA 424

RESULT 5
US-10-593-425-12
; Sequence 12, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 12
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-12

Query Match 3.5%; Score 60.5; DB 1; Length 500;
Best Local Similarity 19.0%; Pred. No. 0;
Matches 58; Conservative 47; Mismatches 82; Indels 119;
Gaps 17;

Qy 119 TGEQUAL-----
EIAEALVRSRGAVDIVIDSVAALVPKAEIEGDMG----- 158
| ||: | : | : :: | :: | | || | | | |
Db 10 TEEQAIIKGSSIDSQIEACIKKAGTKDVL-----
KYADEGFSSELLERPALNRLRE 59

Qy 159 DSHVG-----
LQARLMSQALRKLSGAINKSTIAIFINQIREKVGVMFGNPET 206
| : | | : | : ||: | : | : | | : | | | | |
Db 60 DASKGLISQVICYDPDRLSRKLNMQLI--IDDELRKRNIPLIFVN-----
GEYAN 107

Qy 207 TPGGR-----ALKFYSSVRLEVR---RAEQLKQGNDVMGNKT-
KIKVVKNKVAPPFR 254
| : | : | : | : | : | : | : | : | | | |
Db 108

SPEGQLFAMRGAISEFEKAKIKERTSSGRLQKMKGMIIKDSKLYGYKFVKEK----R 162

Qy 255 TAEVDIMGYGEGISKEGEIIDL-----GTELDIVQKSGA--
WY- 289
| : | : | : | : | : | : | : | : | | |
Db 163 TLEI-----

LEEEAKIIRMIFNYFTDHKSPPFGRVNGIAHLTQMGVKTKGAKVWHR 215

Qy 290 -----SYQEERLGQQGRENAKQFLKE---
NKDILLMIQEQUIREHYGLDTGGAAPAQ 336
||: | : : || | : | : | :
Db 216 QVVRQILMNSSYKGHRQYKYDTEGSYVSKQAGNKSIIKIRPEE--
EQITVTIPAIVPAE 273

Qy 337 E-DEAQ 341
: | ||
Db 274 QWDYAQ 279

RESULT 6
US-10-593-425-6
; Sequence 6, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-6

Query Match 3.0%; Score 52; DB 1; Length 398;
Best Local Similarity 22.9%; Fred. No. 0;
Matches 43; Conservative 25; Mismatches 78; Indels 42;
Gaps 9;

Qy 142
DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVMF 201
| : |||| | : |: | | :: :: | :
|
Db 233 DHQQEVASKAEIYG-----ETWYRSEVTVPLETLFN-----
VYTGKVRTKHKLFS 277

Qy 202
GNPETTPGGRALKFYSSVRLEVRRAEQLKQGNDVMGNKTKIKVVKNVAPPFRTAEVDM 261
| : | | | : | : || | : | : || : | :
Db 278 GSLAIPIWGMTFK--KEELKHPKTEQEKGHSLHFLGFKLPSYVKEQT----
RESE--- 326

RESULT 7
US-10-593-425-16
; Sequence 16, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological
Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 16
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-16

Query Match 2.8%; Score 48; DB 1; Length 264;
Best Local Similarity 26.1%; Fred. No. 0;
Matches 29; Conservative 13; Mismatches 29; Indels 40;
Gaps 7;

RESULT 8

US-10-593-425-4
; Sequence 4, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-10-593-425-4

Query Match 2.5%; Score 44; DB 1; Length 398;
Best Local Similarity 18.2%; Pred. No. 0;
Matches 52; Conservative 40; Mismatches 104; Indels 90;
Gaps 12;

Qy 64 GPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIDEELLSQPD---
TG 120 | | : | || : : : | : | | | : : : :
|
Db 163 GIELNG---TALHMKVVEKNEPDKEKYIGPRHIV----
AKKGATISKKFVEKGEPLTV 214

Qy 121
EQALEIAEALVRSGAVDIVVIDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAI 180
| : | : | || | : : || : :: : | :
:
Db 215 NQHVEKGQMLV-SGL-----
IGSEEKKQVGAKGKIIYGETWYKSTVT 256

Qy 181 NKS K TIA I F IN QIRE KV GM FGN ----- PET ---
TPGGRALKFYSSVR 220
| : | : | : | : | : | : | : | : | : |
|
Db 257
PLETSFDVFTGKVRTSHKLSLGSFSVPWIWGFSFKKEDFSRPKTETENPSLHF MF KLPVA 316

Qy 221 LE---
VRRAEQLKQGNDVMGNKTKIKVVKNVKAPPFRTAEV D I M Y GEG IS KEG E II DL GT 277
| : | : | : | : | : | : | : | : | : | : |
Db 317 YEKEHMRESEQIK-----RVYSKKEAVLEG IEMGKRD IR--
KKIGSDGNII--- 360

Qy 278 ELDIVQKSGAWYSYQEERLGQQRENAKQFLKENKDILLMIQEQUIRE 323
; : | : || | : || | : |:
Db 361 -----SEKVLHETSENGK-----VKLILYQVIE 384

RESULT 9
US-10-593-425-18
; Sequence 18, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark
; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-18

Query Match 2.5%; Score 42.5; DB 1; Length 288;
Best Local Similarity 22.2%; Pred. No. 0;
Matches 16; Conservative 14; Mismatches 31; Indels 11;
Gaps 2;

Qy 54 YPRGRRIIEVYGPESSGKTTVALHIAE-----
VQQQGGQAAFIDAEHALDPVYAQ 103
| : | : | : | : | :||| ::| : : : | : | : | : |
|
Db 215
YGNRLEKLLPLTVKAEDKVYHVMAEFKRGCKHPIIIKSGQKLSQLDENEVLYAYFAD 274

Qy 104 K-LGVNIDEPLL 114
| : : : | : |
Db 275 KRTNNSMEEELL 286

RESULT 10
US-10-593-425-14
; Sequence 14, Application US/10593425
; GENERAL INFORMATION:
; APPLICANT: Feesche, Jorg
; APPLICANT: Meinhardt, Friedhelm
; APPLICANT: Nahrstedt, Hannes
; APPLICANT: Waldeck, Jens
; APPLICANT: Groene, Mark

; APPLICANT: Eichstadt, Renee
; TITLE OF INVENTION: Factor RecA From Bacillus Licheniformis and RecA-inactivated
; TITLE OF INVENTION: Safety Stems Used for Biotechnological Production
; FILE REFERENCE: H 06291 (13744*21)
; CURRENT APPLICATION NUMBER: US/10/593,425
; CURRENT FILING DATE: 2006-09-19
; PRIOR APPLICATION NUMBER: PCT/EP05/001543
; PRIOR FILING DATE: 2005-02-16
; PRIOR APPLICATION NUMBER: DE 10 2004 013 988.1
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-593-425-14

Query Match 2.0%; Score 34.5; DB 1; Length 156;
Best Local Similarity 22.3%; Pred. No. 0;
Matches 25; Conservative 20; Mismatches 44; Indels 23;
Gaps 5;

Qy 94 EHALDPVYAQKLGVNIDELLSQPDGTGEQALEIAEALVRSGAVDIVV-
IDSVAALVPKAE 152
||| : : | : : :: ||| || |: | : :: | : | : |
Db 49 EHARNMLIEHNLRL-VAHIVKKFENTGED----
AEDLISIGTIGLIKGIESYSA---- 97

Qy 153 IEGDMGDHSVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKV-GVMFGN 203
| : : | : | : | : | : | : || : || |
Db 98 -----GKGTKVATYAARCIENEIVITKGCGIHPSLIRFNIIYGVRIHN 139

Search completed: January 27, 2009, 15:05:51
Job time : 1 secs